

Title (en)  
EXHAUST GAS RECIRCULATION VALVE ASSEMBLY

Publication  
**EP 0428274 B1 19930707 (EN)**

Application  
**EP 90311449 A 19901018**

Priority  
US 43592489 A 19891113

Abstract (en)  
[origin: EP0428274A1] An exhaust gas recirculation valve assembly (10) for controlling the recirculation of exhaust gas in an internal combustion engine, said assembly (10) having a base (12) with an exhaust gas chamber (18) formed therein, a valve member (36) mounted within the exhaust gas chamber (18) for metering the flow of exhaust gas therethrough, a one-piece bearing (54) having upper and lower bearing members (56,64) for precise positioning of the valve member (36) within the exhaust gas chamber (18), and a valve stem support assembly (88) for mounting the valve stem (38) relative to an actuator (68) which has means for allowing lateral movement between the actuator (68) and the valve member (36), thereby eliminating side-to-side loading and resultant binding of the precisely-positioned valve member (36) within the bearing (54).

IPC 1-7  
**F02M 25/07**; **F16K 31/06**

IPC 8 full level  
**F02M 25/07** (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP US)  
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**F02M 26/74** (2016.02 - EP US)

Cited by  
EP1241342A3; EP1035319A3; EP1241343A3; EP0545455A1; US6422223B2; US6607172B1

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